| Substitut | te for form 14 | 49A/PTO | | Complete if Known | | | | | | |
|-----------|----------------|---------|--------------|---------------------|---------------------------------------|--|--|--|--|--|
| | | | | Application Number | To Be Assigned | | | | | |
| | INFOR | MATIC | N DISCLOSURE | Filing Date | Concurrently Yoshikazu IKENOUE et al. | | | | | |
| | STATE | MENT | BY APPLICANT | First Inventor | | | | | | |
| | | | | Group Art Unit | To Be Assigned | | | | | |
| | | | | Examiner Name | To Be Assigned | | | | | |
| Sheet | 1 | of | 2 | Attorney Docket No. | 05058/16305 | | | | | |

U.S. PATENT DOCUMENTS

| Examiner Initials | taminer Cite # DOCUMENT DOCUMENT | | C O D E | PATENTEE | ISSUE DATE (mm/dd/yy) | CLASS | SUB CLASS | Filing Date if Appropriate |
|----------------------|----------------------------------|-----------|---------|-----------------|--------------------------|-------|--------------|-------------------------------|
| 00 | (1) | 4,837,737 | | Watanabe | 06/06/89 | 364 | 900 | |
| | (8) | 3,004,104 | | E.F. Hembrooke | 10/10/61 | 179 | 2 | |
| | (9) | 3,784,289 | | Wicker | 01/08/74 | 350 | 321 | |
| | (10) | 4,739,377 | | Allen | 04/19/88 | 355 | 133 | ٠ |
| | (11) | 4,847,641 | | Tung | 07/11/89 | 346 | 154 | |
| l | (12) | 5,212,558 | | Obata et al. | 05/18/93 | 358 | 296 | |
| | (13) | 5,231,663 | | Earl et al. | 07/27/93 | 380 | 18 | |
| | (14) | 5,235,681 | | Masuzaki et al. | 08/10/93 | 395 | 164 | |
| | (15) | 5,243,655 | | Wang | 09/07/93 | 380 | 51 | |
| | (16) | 5,245,655 | | Bühn et al. | 09/14/93 | 380 | 18 | |
| | (17) | 5,257,119 | | Funada et al. | 10/26/93 | 358 | 438 | |
| | (18) | 5,299,026 | | Vincett et al. | 03/29/94 | 358 | 401 | |
| | (19) | 5,315,098 | | Tow | 05/24/94 | 235 | 494 | |
| | (20) | 5,337,361 | | Wang et al. | 08/09/94 | 380 | 51 | |
| | (21) | 5,374,976 | | Spannenburg | 12/20/94 | 355 | 201 | , |
| | (22) | 5,418,602 | | Nishikawa | 05/23/95 | 355 | 201 | |
| <u> </u> | (23) | 5,424,807 | | Ohmura | 06/13/95 | 355 | 201 | |
| | (24) | 5,426,710 | | Suzuki et al. | 06/20/95 | 382 | 135 | |
| | (25) | 5,481,377 | | Udagawa et al. | 01/02/96 | 358 | 501 | |
| | (26) | 5,583,614 | | Hasuo et al. | 12/10/96 | 355 | 201 | |
| | (27) | 5,640,253 | | Uchida et al. | 06/17/97 | 358 | 501 | |
| T | (28) | 5,671,277 | | Ikenoue et al. | 09/23/97 | 380 | 7 | |
| | (29) | 5,721,788 | | Powell et al. | 02/24/98 | 382 | 100 | |
| ()D | (30) | 5,987,127 | | Ikenoue et al. | 11/16/99 | 380 | 7 | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials | | O F F I | NUMBER 02-052384 | C O D | PUBLICATION DATE | TRANSLATION Yes No |
|----------------------|------|------------------|---------------------|-------------|------------------|-----------------------|
| | (2) | E JP | | E A | 02/21/90 | ABSTRACT ONLY |
| _ /// | (3) | JP | 02-111161 | A | 04/24/90 | x |
| | (4) | JP | 02-120753 | Α | 05/08/90 | ABSTRACT ONLY |
| | (5) | JP | 02-266759 | Α | 10/31/90 | x |
| | (6) | JP | 03-120561 | Α | 05/22/91 | ABSTRACT ONLY |
| | (31) | JP | 61-285578 | Α | 12/16/86 | X |
| | (32) | JP | 62-256046 | Α | 11/07/87 | X |
| 7 | (33) | JP | 02-096276 | Α | 04/09/90 | ABSTRACT ONLY |
| m | (34) | JP | 04-009963 | Α | 01/14/92 | X |

| Substitute | for form | 1449A/PTC |) | · · · · · · · · · · · · · · · · · · · | | Complete if Known | | | | | |
|----------------------|----------|---------------------|--|---------------------------------------|-----------|------------------------------|-------------|---|----------|--|--|
| | | | | | Appli | Application Number To Be Ass | | | | | |
|] | NFO | RMATI | ON DISCLOSE | JRE | Filing | Date | Cond | Concurrently | | | |
| | STAT | EMEN' | Γ BY APPLICA | NT | First I | nventor | Yosh | Yoshikazu IKENOUE et al. To Be Assigned | | | |
| | | | | | Group | Art Unit | ТоВ | | | | |
| | | | | | Exam | iner Name | | To Be Assigned | | | |
| Sheet | 2 | of | 2 | _ | Attori | ney Docket No. | | 05058/16305 | | | |
| | | | FOREI | GN PATE | ENT DO | OCUMENTS | S | | | | |
| Function | | O F F | | C O | DUDI | LICATION DA | TC | TRANSL | ATION | | |
| Examiner Initials | | l C E | NUMBER | D E | PUBL | (mm/dd/yy) | IE | Yes | No | | |
| W | (35) | JP | 04-343568 | Α | | 11/30/92 | | ABSTRACT ONLY | 1 | | |
| Examiner Initials | | Include na | me of the author (in CAPIT/ symposium, catalog, etc. | | | | | | | | |
| 00 | (7) | | o Nakamura and Kinevel Micro-Patterns | | | | | | | | |
| | (36) | "Unauth | orized Copy Preven | tion", IBM | Technica | l Disclosure Bu | ılletin, Ju | ine 1975, pgs. 59 | 9-60 | | |
| | (37) | 1981, pg | ent Security System gs. 3550-3551 | | | | | · | • | | |
| | (38) | on Com | proved Method of E munications, March | 1988, Vol. | 36, No. 3 | , pgs. 315-331 | | | | | |
| | (39) | pgs. 216 | | | | | • | _ | | | |
| | (40) | | u et al., "Authentica of Science & Engine | | | | | | s of the | | |
| 00 | (41) | Komatsı Applicat | u et al., "A Proposal tion to Realizing a S 990 (translation pgs | on Digital \ Signature", E | Watermai | k in Document | Image C | Communication a | | | |
| Examine | | DANG | | | | Date Considered | 3⁄ | 30/06 | | | |

Signature | HIVAL 1) | Considered | 3/30 6/6 |
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

| | | | | $-\!$ | <u> </u> | | | | | | | |
|--|--------------------------|----------------------------|--------------------------------|---|--|---|--|--|---------------------------------------|---------------------|-----------------|--|
| Substitute | ior iom | n 1449A | PIO | / 0` | | Complete if Known Application Number 10/084,708 | | | | | | |
| | | | | nr | f 2 1 2002 . | | irmation No.: | | U8 | | | |
| , | nmo | T3 B # A | TOTAL DAY | 7 | SCALLD E SE | | g Date | 6227 | 21 2002 | | | |
| | ENFO | KIVIA | TION DI | | SURE TARMEN | | Inventor | February 21, 2002 Yoshikazu IKENOUE et al. | | | | |
| | SIAI | LIVIE | ENIBYA | PPLA | CAN | | | | Zu IKENOU | | | |
| | | | | | | | p Art Unit niner Name | 2623 | | <u>\$</u> | o : | |
| 91 | - | | | | | | | To Be A | | echnology | 00 | |
| Sheet 1 of 1 Attorney Docket No. 05058/16305 | | | | | | | | | | |)CIT & 2 2002 | |
| U.S. PATENT DOCUMENTS | | | | | | | | | | | | |
| Examiner Initials | Cite # | DOCUMENT O D PATENTEE | | | | : | ISSUE DATE (mm/dd/yy) | CLASS | SUB CLASS | Filing | Date if opriate | |
| 00 | (4) | 5, | 216,724 | | Suzuki et a | l. | 06/01/1993 | 382 | A 135 | | | |
| | | | | | | | | | | | | |
| · | | | - | | | | | | | | | |
| | - | | | | | | | | | | | |
| | - | | | \vdash | | | | | | | | |
| | | | | \vdash | | | | | | | | |
| | + | | | ┝╌┼ | | _ | | | | | | |
| | FOREIGN PATENT DOCUMENTS | | | | | | | | | | | |
| Examiner Initials | | O F F I C E | NUM | BER | C O D E | PUBL | ICATION DATE (mm/dd/yy) | TRANSI Yes | | ATION No | ļ | |
| 00 | (1) | JP | 61-28 | 5578 | A | | 12/16/1986 | | | T | | |
| | (2) | JP | 2-28 | | A | | 11/21/1990 | ABST | FRACT ONLY | 1 | • | |
| \dot{m} | (3) | JP | 55-12 | 3270 | A | (| 09/22/1980 | | YES | | | |
| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS | | | | | | | | | | | | |
| Examiner Initials | ļ | Inclu | de name of the aut symposiu | hor (in C/ m, catalo | APITAL LETTERS), title g, etc.), date, page(s), vol | of the a ume-issu | ticle (when appropriate) e number(s), publisher, c | title of the iten | n (book, magazin try where publish | ie, journal, ned | serial, | |
| | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | | | | | | | | | |
| | | | | | | | · | | | | | |
| Examine Signatur | | M | NG, | D | | | Date Considered | والاه | 0/06 | | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

| • | | | 0 | 1PA | | | | | | | | |
|----------------------|------------------------------------|------------------|--|--|---|----------------------------|---|--|---------------------------------------|-------------------------------|--|--|
| Substitute | for form | n 1449A/PT | ro / | | - | \top | C | omplete if K | lnown | | | |
| | | | MAR | 062 | 2003 É | Apr | plication Number | 10/084,70 | | | | |
| | | | ٠. | | MR 3 | Cor | nfirmation No.: | 6227 | 6227 February 21, 2002 | | | |
| I | NFO | RMAT | M. SIC. | SCLC | SIŒ E | Fili | ng Date | Februar | | | | |
| 5 | STAT | remen | TION DIS | PPIM | CANT | _ | st Inventor | | zu IKENOUE | et al. | | |
| | | | · - | | . • • • • • • • • • • • • • • • • • • • | Gro | oup Art Unit | 2623 | | | | |
| | | | | | | | aminer Name | To Be As | ssianed | | | |
| Sheet | 1 | 10 | of 1 | | | | orney Docket No. | 05058/16 | | | | |
| | | | | | U.S. PATEN | T DO | CUMENTS | | | | | |
| Examiner Initials | Cite # | | UMENT MBER | CODE | PATENT | EE | ISSUE DATE (mm/dd/yy) | CLASS | SUB CLASS | Filing Date if Appropriate | | |
| 1D | (6) | 6,1€ | 66,750 | | Negishi | i | 12/26/00 | 347 | 131 | | | |
| ØD) | (7) | | 57,119 | | Funada et | | 10/26/93 | 358 | 438 | | | |
| | igsquare | | | | | | | | | | | |
| | $\downarrow \downarrow \downarrow$ | | | | | | | <u> </u> | | | | |
| | \perp | <u> </u> | | Ш | | | | <u></u> | LREU | EIVED | | |
| | | | | FOI | REIGN PAT | ENT | DOCUMENTS | S | | 1 0 7003 | | |
| | | O F | | | С | - | | | Jecumona | y Center 2300 | | |
| Examiner Initials | | F I C E | NUM | BER | O D E | PUB | LICATION DATE (mm/dd/yy) | E | ATION No | | | |
| M | (1) | JP | 03-25 | 6087 | (A) | | 11/14/91 | | YES | T | | |
| | (2) | JP | 61-20 | | (U) | | 12/24/86 | | PARTIAL | | | |
| | (3) | JP | 02-16 | | (A) | | 06/21/90 | | PARTIAL | | | |
| | (4) | JP | 62-11 | | (A) | | 05/22/87 | | PARTIAL | | | |
| DI) | (5) | JP | 05-21 | 9353 | (A) | | 08/27/93 | | ABSTRACT | | | |
| | \perp | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | ـــ | | <u> </u> | | | | | | | <u> </u> | | |
| | 1 | | | | | | | | | | | |
| | ┼─┤ | ı ———— | | | | | | | | 1 | | |
| | (|)THER | R PRIOR | ART | Γ – NON PA | TENT | r Literatur | RE DOC | UMENTS | 3 | | |
| Examiner Initials | | Include i | name of the auth symposium | nor (in C m, catalo | APITAL LETTERS), og, etc.), date, page(s), | title of the volume-iss | article (when appropriate) sue number(s), publisher, o |), title of the iten city and/or coun | n (book, magazir try where publis' | ne, journal, serial, hed | | |
| | | I | | | | | | | | | | |
| Examine | <u>:</u> r | | DANG | F |) | | Date | ola | 00/16 | | | |

Signature VHTV C; Considered 23016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

| Substitute | for forr | m 1449A/F | то | | | | <u> </u> | | Complete if I | | , | |
|----------------------|--|--|-----------------------|-----------------------|----------------|--|--|---|----------------------------|-----------------------|--|--|
| | | ~- - | | | | | | lication Number | 10/084,7 | <u>'08</u> | | |
| L . | | | | ENTA | | | | firmation No.: | 6227 | | | |
| T | | | | DISCL | | | | ng Date | | y 21, 2002 | | |
| 4 | STATEMENT BY APPLICANT | | | | | | | Inventor | | zu IKENOUI | E et al. | |
| TO I | | | | | | | | up Art Unit | 2623 | | | |
| | Ļ | | - 1 4 | | | | | miner Name | To be as | _ | | |
| Shee | 1 | | of 1 | | | | Atto | rney Docket No. | 05058/10 | 5305 | | |
| RACE | | | | | U.S | S. PATE | ENT DO | CUMENTS | | | | |
| Examiner Initials | THE PART OF THE PA | | | | √TEE | ISSUE DATE (mm/dd/yy) | CLASS | SUB CLASS | Filing Date if Appropriate | | | |
| | | ļ | | | | | | <u> </u> | | | | |
| | + | | | | + | | | | J | UN 1 2 | 2003 | |
| | | | | _ | + | | | | Tools | | - 2222 | |
| | | | | | | | | | 180111 | lology Con | 19f 2500 | |
| | Т— | O F | <u></u> | FO | PRE | IGN PA | TENT I | DOCUMENT | s | | | |
| Examiner Initials | | F | | UMBER | | | PUBI | LICATION DAT | Е | TRANSLATION Yes No | | |
| | ' | | ┼ | | | <u> </u> ' | | | | | | |
| | ' | | | | | | | | | | | |
| | | | + | | | | | | | | | |
| | + | | + | | | | | | | | | |
| | | | 1 | | | 1 | | | | | | |
| | | | | | | | | ATURE DO | | | | |
| Examiner Initials | <u> </u> | | symp | posium, cata | alog, etc | c.), date, page(| (s), volume-issu | article (when appropriate ue number(s), publisher, | city and/or coun | ntry where publis | shed | |
| PD | (1) | <u>Gakka</u> April | aishi (Jo 1990, pg | ournal of gs 229-2 | f the 235 a | Institute and transl | of Picture lation (pg | | s Engineer | <u>rs)</u> Vol. 19 |), No. 4, | |
| | (2) | Transa | actions o | on Com | muni | ications, | Vol. CON | to Pictures By I M-32, No. 1, Jar | nuary 1984 | l, pgs 56-7 | 70 | |
| b | (5) | Smart | Card"," | ' Proc. c | of 19 | 89 Autur | mn Meetir | e Document Imng of the Institution ber 1989, pgs 2 | te of Elect | ronics, Inf | ormation and | |
| | igspace | | | | | | | | | | | |
| Examine | <u></u> | DAL | <u></u> | | | | | T Data T | - /- | 7 | | |
| | , I | 11171.7 | A 1/ | 11 1 | | | | Date | 9/2 | JAC | | |

Signature Considered 750/66

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

| ultriture. | for form | 1449A/PT | Ò | | | | | | omple | te if K | nown | | | |
|----------------------|-----------|-----------------------|-----------------------------|-----------------------|--|-----------------------|------------------|---|-------------------------|---------------------------|-------------------------------------|-------------------------------|--|--|
| 46 | <i>!</i> | | | ٠. | . · • | Γ | Appl | ication Number | 10/ | 10/084,708 | | | | |
| O B 2003 | <u> </u> | SUPF | PLEMEN | TAL | | | Conf | irmation No.: | 622 | 6227 February 21, 2002 | | | | |
| 0 0 200 | MO | | ION DIS | | | 1 | Filing | g Date | Feb | | | | | |
| S | | | T BY AF | | | ı | | | | Yoshikazu IKENOUE et al | | | | |
| MADENA | 7 | | | | | ŀ | | | | | | | | |
| | | | | | | ľ | Exan | niner Name | То | To be assigned | | | | |
| Sheet | 1 | 0 | of 1 | | <u> </u> | 一十 | Attor | ney Docket No. | 050 | 58/16 | 58/16305 | | | |
| | | | | | U.S. PATE | NT | DOC | CUMENTS | | | | | | |
| Examiner Initials | Cite # | | JMENT MBER | CODE | O D PATENTEE | | | ISSUE DATE (mm/dd/yy) | CLASS | | SUB CLASS | Filing Date if Appropriate | | |
| 010 | (1) | 1,00 | 2,600 | | Morris e | t al | | 09/05/11 | | | | | | |
| 1 | (2) | | 8,597 | | Mercha | | | 05/26/87 | 43 | | 22 | | | |
| 1912 | (3) | 5,48 | 39,158 | | Wang e | t al | | 02/06/96 | 400 | | 103 | | | |
| | | | | | | | | | | | | | | |
| | 1 1 | .0 | | FO | REIGN PA | TEI | NT D | OCUMENT | S | | | | | |
| Examiner Initials | | F F I C E | NUM | BER | C O D E | J | PUBLICATION DATE | | | | TRANSLATION Yes No | | | |
| | | | | _ | | • | | | | F | RECE | IVED | | |
| , | | | | | | | | | | | DEC 0 | 9 2003 | | |
| | | | | | | | | | | Tec | chnology | Center 2600 | | |
| | | | OTHER | NOI | N PATENT | LIT | ΓER | ATURE DO | CUM | ENT | | | | |
| Examiner Initials | | Include | name of the aut symposiu | hor (in (m, catal | CAPITAL LETTERS og, etc.), date, page(s | s), title s), volu | of the a | rticle (when appropriate e number(s), publisher, |), title of city and | the iten or coun | n (book, magazi try where publis | ne, journal, serial, hed | | |

Examiner Signature Date Considered 3(30 06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.